

## ABSTRACT:

In a network connection comprising at least two wires (1, 2) for electrically connecting network users (3, 4, 5, 6, 7) in a network, joint data transmission and energy transfer from a terminal of a voltage source via the two wires of the network connection is ensured in that the network connection has a symmetrical structure and the two wires (1, 2) are twisted, in that the wires (1, 2) are mutually insulated to such an extent (13; 21, 22; 34; 35) that they are suitable for a symmetrical, differential data transmission, and in that the two wires (1, 2) have the same electrical resistance and jointly have a cross-section which is suitable for energy transfer from a terminal of a voltage source to network users (3, 4, 5, 6) via both wires (1, 2).

Fig. 2

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